

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A display device comprising:
a display substrate;
projections on the display substrate, which form a difference in height between the projections and the peripheries of projections; and
an optical material arranged on the projections.
2. (Canceled).
3. (Previously Presented) The method of manufacturing a display device according to claim 16, the features being recesses that are less repellent to the optical material in liquid or the liquid precursor, compared to the peripheries of the recesses; and
the optical material being disposed at a surface where the recesses are formed.
4. (Previously Presented) A method of manufacturing a display device , the method comprising the steps of:
forming projections on a display substrate so as to form a difference in height between the projections and the peripheries of projections; and
applying one of an optical material and a liquid precursor to the surface where the projections are formed.
- 5-8. (Canceled).
9. (Previously Presented) The method of manufacturing a display device according to claim 73, the wiring including at least one bus line.
10. (Previously Presented) The method of manufacturing a display device according to claim 73, the wiring including at least one of a scanning line, signal line and a supply line.

11. (Previously Presented) The method of manufacturing a display device according to claim 4, the projections formed by pixel electrodes.

12. (Previously Presented) The method of manufacturing a display device according to claim 16, the features including an interlayer insulation film.

13. (Previously Presented) The method of manufacturing a display device according to claim 16, the features including a light shielding layer.

14. (Previously Presented) The method of manufacturing a display device according to claim 16, in the step of forming features, the features being formed by application of a material in liquid followed by removal of a part of the material.

15. (Previously Presented) A method of manufacturing a display device, the method comprising the steps of:

forming features of which repellency to one of an optical material in liquid and a liquid precursor of the optical material is substantially different from that of peripheries of the features on a peeling layer disposed on a peeling substrate so as to form a difference in height between the features and predetermined positions defined by features;

applying one of the optical material and the liquid precursor to the surface at the predetermined positions; and

transferring the layer to be transferred onto a display substrate.

16. (Previously Presented) A method of manufacturing a display device, the method comprising the steps of:

forming features on a display substrate so as to form a difference in height between the features and predetermined positions defined by the features; and

applying one of an optical material and a liquid precursor to the surface at the predetermined positions, wherein a height d_r of the surface features satisfies the following equation (1):

$$d_a < d_r$$

d_a is a thickness of a single coat of the liquid optical material.

17. (Previously Presented) The method of manufacturing a display device according to claim 16, wherein following equation (2) is satisfied:

$$V_d / (d_b \cdot r) > E_t$$

V_d is a driving voltage applied to the optical material;

d_b is a total thickness of the liquid optical material coated;

r is a concentration of the liquid optical material; and

E_t is a minimum electric field strength (threshold electric field strength) at which a change in optical properties if the liquid optical material occurs.

18. (Previously Presented) The method of manufacturing a display device according to claim 19, wherein following equation (3) is satisfied:

$$d_f = d_r$$

d_f is a thickness of the optical material at the time of completion; and

d_r is a height of the surface features.

19. (Previously Presented) A method of manufacturing a display device, the method comprising the steps of:

forming features on a display substrate so as to form a difference in height between the features and predetermined positions defined by the features; and

applying one of an optical material and a liquid precursor to the surface at the predetermined positions, wherein following equation (4) is satisfied:

$$V_d / d_f > E_t$$

V_d is a driving voltage applied to the optical material; and

E_t is a minimum electric field strength (threshold electric field strength) at which a change in optical properties of the liquid optical material occurs.

20-31. (Canceled).

32. (Currently Amended) A method of manufacturing a display device, the method comprising the steps of:

~~_____ forming features on a display substrate so as to form a difference in height between the features and predetermined positions defined by the features;~~

~~_____ applying one of an optical material and a liquid precursor to the surface at the predetermined positions; and~~

~~_____ enhancing a lyophilicity at the ~~predetermined~~predetermined positions on the displaya display substrate relative to a lyophilicity of peripheries of the predetermined positions-positions; and~~

~~_____ applying one of an optical material and a liquid precursor to the surface at the predetermined positions.~~

33-50. (Canceled).

51. (Previously Presented) The display device according to claim 61, the predetermined positions being a one of the features and peripheries that is lower in height.

52-53. (Canceled).

54. (Previously Presented) The method of manufacturing a display device according to claim 4, the method further comprising forming switching elements.

55. (Previously Presented) The method of manufacturing a display device according to claim 54, the switching elements being thin film transistors.

56. (Previously Presented) The display device according to claim 81, the switching elements being thin film transistors.

57. (Canceled).

58. (Previously Presented) The display device according to claim 1, further comprising features that surround the optical material.

59. (Canceled).

60. (Previously Presented) A display device comprising:
a substrate;
features on the substrate that form a difference in height between the features
and predetermined positions defined by the features; and
an optical material arranged at predetermined positions by ink jet method,
repellency of the features to one of an optical material in liquid and a liquid
precursor of the optical material being substantially different from that of the peripheries of
the features.
61. (Previously Presented) A display device comprising:
features that include wiring and that form a difference in height between the
features and predetermined positions defined by the features; and
an optical material arranged at predetermined positions defined by the features
on a display substrate.
62. (Previously Presented) The display device according to claim 61, further
comprising switching elements.
63. (Previously Presented) The display device according to claim 62, the
switching elements being thin film transistors.
64. (Previously Presented) The display device according to claim 61, the features
being projections which surround the optical material.
65. (Canceled).
66. (Previously Presented) The method of manufacturing a display device
according to claim 4, applying one of the optical material and the liquid precursor to the
surface where the projections are formed by an ink jet method.
67. (Previously Presented) The method of manufacturing a display device
according to claim 4, the method further comprising the step of:
forming an interlayer so that at least part of the projections is covered.

68. (Previously Presented) The method of manufacturing a display device according to claim 4, the method further comprising the steps of:

forming features of which repellency to one of the optical material in liquid and the liquid precursor of the optical material is substantially different from that of peripheries of the projections on a display substrate so as to form a difference in height between the features and predetermined positions defined by features; and

applying one of the optical material and the liquid precursor to the surface at the predetermined positions.

69. (Previously Presented) The method of manufacturing a display device according to claim 68, the features formed by wiring.

70. (Previously Presented) The method of manufacturing a display device according to claim 69, the wiring including at least one bus line.

71. (Previously Presented) The method of manufacturing a display device according to claim 69, the wiring including at least one of a scanning line, signal line and a supply line.

72. (Previously Presented) The method of manufacturing a display device according to claim 4, wherein projections are less repellent to one of the optical material in liquid and the liquid precursor, compared to the peripheries of the projection.

73. (Previously Presented) A method of manufacturing a display device, the method comprising the steps of:

forming features on an a display substrate by wiring so as to form a difference in height between the features and predetermined positions defined by the features; and

applying one of an optical material and a liquid precursor to the surface at the predetermined positions.

74. (Currently Amended) The method of manufacturing a display device according to claim 15, wherein applying one of the optical material and the liquid precursor to the surface at ~~predetermined~~ the predetermined positions is performed by an ink jet method.

75. (Previously Presented) The method of manufacturing a display device according to claim 16, wherein repellency of the features to one of the optical material in liquid and the liquid precursor of the optical material is different from that of the predetermined positions.

76. (Previously Presented) The display device according to claim 1, the projections formed by pixel electrodes.

77. (Previously Presented) The display device according to claim 1, further comprising an interlayer covering at least part of the projections.

78. (Previously Presented) The method of manufacturing a display device according to claim 58, the features formed by wiring.

79. (Previously Presented) The method of manufacturing a display device according to claim 78, the wiring including at least one bus line.

80. (Previously Presented) The method of manufacturing a display device according to claim 78, the wiring including at least one of a scanning line, signal line and a supply line.

81. (Previously Presented) The display device according to claim 1, further comprising switching elements.

82. (Previously Presented) The display device according to claim 61, the wiring including at least one bus line.

83. (Previously Presented) The display device according to claim 61, the wiring including at least one of a scanning line, a signal line, and a supply line.

84. (Previously Presented) The method of manufacturing a display device according to claim 16, wherein applying one of the optical material and the liquid precursor to the surface at predetermined positions is performed by an ink jet method.

85. (Previously Presented) A method of manufacturing an electro-luminescent device, the method comprising the steps of:

forming projections on a substrate so as to form a difference in height between the projections and the peripheries of projections; and

applying one of an optical material and a liquid precursor to the surface where the projections are formed.

86. (Previously Presented) The method of manufacturing a display device according to claim 19, wherein applying one of the optical material and the liquid precursor to the surface at predetermined positions is performed by an ink jet method.

87. (Previously Presented) A method of manufacturing an electro-luminescent device, the method comprising the steps of:

forming features of which repellency to one of an optical material in liquid and a liquid precursor of the optical material is substantially different from that of peripheries of the features on a peeling layer disposed on a peeling substrate so as to form a difference in height between the features and predetermined positions defined by features;

applying one of the optical material and the liquid precursor to the surface at the predetermined positions; and

transferring the layer to be transferred onto a display substrate.

88. (Previously Presented) A method of manufacturing an electro-luminescent device, the method comprising the steps of:

forming features on a substrate so as to form a difference in height between the features and predetermined positions defined by the features; and

applying one of an optical material and a liquid precursor to the surface at the predetermined positions,

wherein a height d_r of the surface features satisfies the following equation (1):

$$d_a < d_r$$

d_a is a thickness of a single coat of the liquid optical material.

89. (Previously Presented) A method of manufacturing an electro-luminescent device, the method comprising the steps of:

forming features on a display substrate so as to form a difference in height between the features and predetermined positions defined by the features; and

applying one of an optical material and a liquid precursor to the surface at the predetermined positions wherein following equation (4) is satisfied:

$$V_d/d_f > E_t$$

V_d is a driving voltage applied to the optical material; and

E_t is a minimum electric field strength (threshold electric field structure) at which a change in optical properties of the liquid optical material occurs.

90. (Currently Amended) A method of manufacturing an electro-luminescent device, the method comprising the steps of:

forming features on a display substrate so that a difference in height between the features and predetermined positions is defined by the features;

enhancing a lyophilicity at the predetermined positions on the display substrate relative to a lyophilicity of the peripheries of the predetermined positions; and

applying one of an optical material and a liquid precursor to the surface at the predetermined positions; and positions.

~~enhancing a lyophilicity at the predetermined positions on the display substrate relative to a lyophilicity of the peripheries of the predetermined positions.~~

91. (Previously Presented) An electro-luminescent device comprising:

a substrate;

projections on the substrate, which form a difference in height between the projections and the peripheries of projections; and

an optical material arranged on the projections.

92. (Currently Amended) An electro-luminescent device comprising:

a substrate;

features on the substrate that form a difference in height between the features and predetermined positions defined by the features; and

an optical material arranged at predetermined positions by ink jet method,

repellency of the features to one of an optical material in liquid and a liquid precursor of the optical material ~~is substantially~~ being substantially different from that of the peripheries of the features.

93. (Previously Presented) An electro-luminescent device comprising:

features that include wiring and that form a difference in height between the features and predetermined positions defined by the features; and

an optical material arranged at predetermined positions defined by the features on a display substrate.

94. (Previously Presented) A method of manufacturing a display device, comprising the steps of:

forming features of which repellency to an optical material in one of a liquid and a liquid precursor of the optical material is substantially different from that of peripheries of the features on an object comprising a display substrate so that a difference in height between the features in predetermined positions defined by the features is formed;

applying one of the optical material and the liquid precursor to the surface where the features are formed by an ink jet method, wherein

the features comprising pixel electrodes.

95. (Currently Amended) The method of manufacturing a display device according to claim 32, wherein applying one of the optical material and the liquid precursor to the surface at ~~predetermined~~ the predetermined positions is performed by an ink jet method.

96. (Previously Presented) The method of manufacturing a display device according to claim 73, wherein applying one of the optical material and the liquid precursor to the surface at predetermined positions is performed by an ink jet method.

97. (Previously Presented) The method of manufacturing a display device according to claim 19, wherein repellency of the features to one of the optical material in liquid and the liquid precursor of the optical material is different from that of the predetermined positions.

98. (Currently Amended) The method of manufacturing a display device according to claim 32, the method further comprising the steps of:
forming features on the display substrate so as to form a difference in height between the features and predetermined positions defined by the features, wherein repellency of the features to one of the optical material in liquid and the liquid precursor of the optical material is different from that of the predetermined positions.

99. (Previously Presented) The method of manufacturing a display device according to claim 73, wherein repellency of the features to one of the optical material in liquid and the liquid precursor of the optical material is different from that of the predetermined positions.

100. (New) A display device comprising:
a substrate;
features on the substrate that form a difference in height between the features and predetermined positions defined by the features; and
an optical material arranged at predetermined positions,

repellency of the wall of features to one of an optical material in liquid and a liquid precursor of the optical material being substantially different from that of the top of the features.

101. (New) A method of manufacturing an electro-luminescent device, the method comprising the steps of:

- forming pixel electrodes on a substrate;
- forming an insulating layer on the pixel electrodes;
- enhancing a repellency at a surface of the insulating layer;
- patterning the insulating layer so as to expose a part of the pixel electrodes;

and

applying one of an optical material and a liquid precursor on the part of the pixel electrodes.

102. (New) A method of manufacturing an electro-luminescent device according to claim 101, wherein enhancing a repellency at the surface of the insulating layer is performed by one of an ultraviolet ray irradiation and an irradiation of plasma.

103. (New) A method of manufacturing an electro-luminescent device, the method comprising the steps of:

- forming pixel electrodes on a substrate;
- forming an insulating layer on the pixel electrodes;
- patterning the insulating layer so as to expose a part of the pixel electrodes;
- enhancing a repellency at a surface of the insulating layer; and
- applying one of an optical material and a liquid precursor on the part of the

pixel electrodes.

104. (New) A method of manufacturing an electro-luminescent device according to claim 103, wherein enhancing a repellency at the surface of the insulating layer is performed by one of an ultraviolet ray irradiation and an irradiation of plasma.